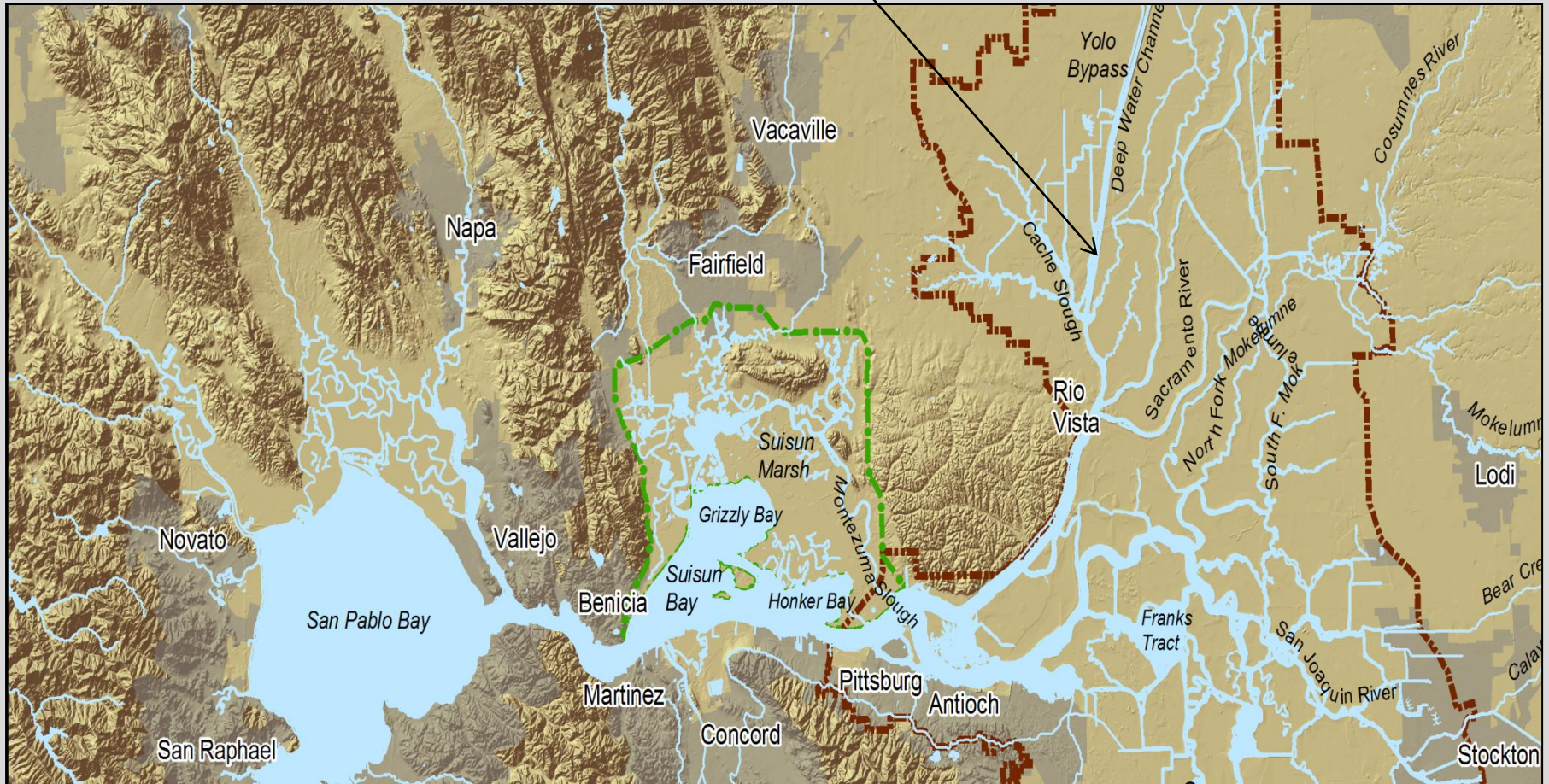


# PROSPECT ISLAND RESTORATION

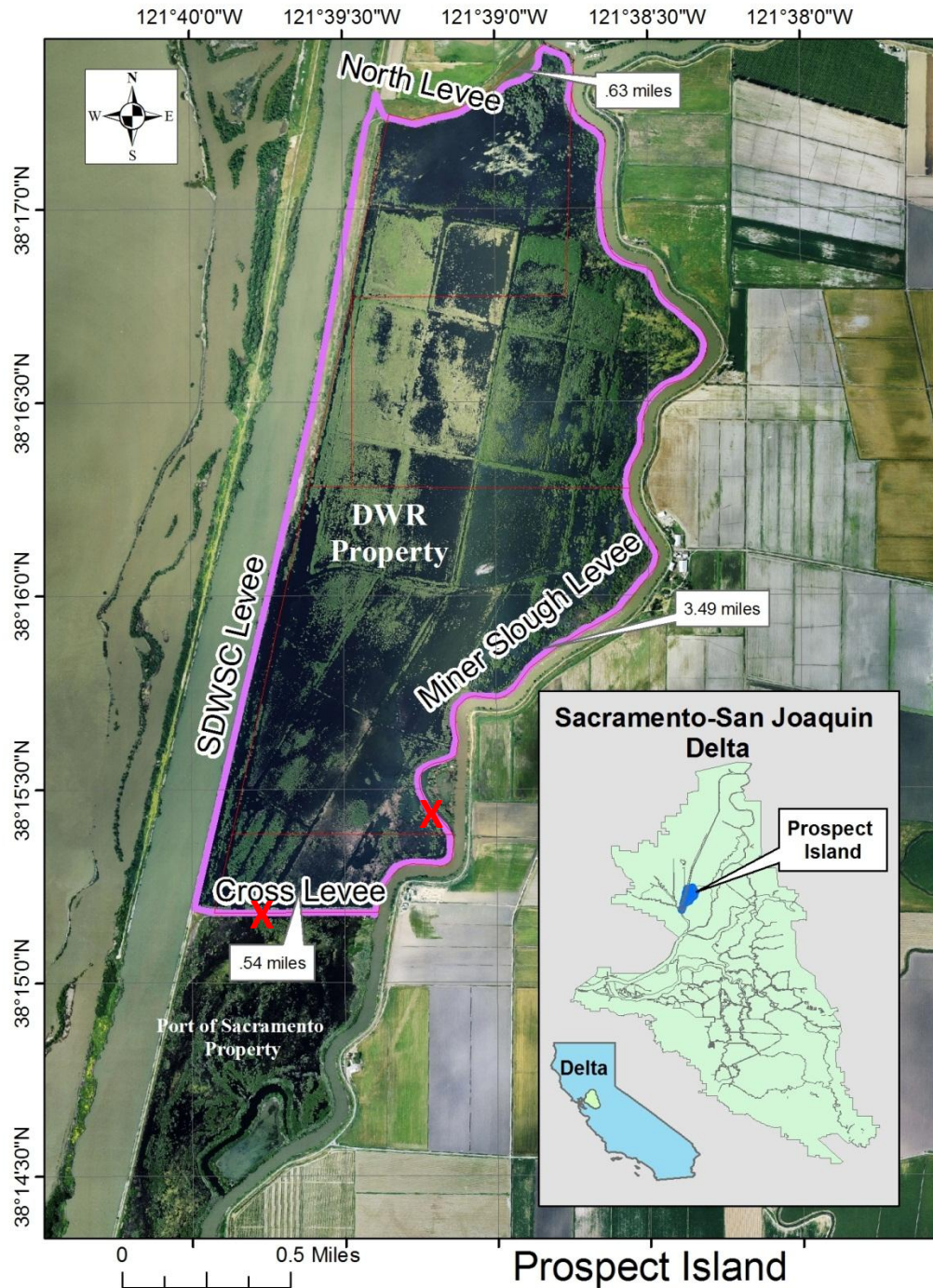


**Dan Riordan**  
**Fish Restoration Program**  
**Department of Water Resources**

# Prospect Island







# Prospect Island

- Historically farmed
- Part of Yolo Bypass
- Bought by USBR in 1994 for NDNWR
- 2000 – Congress fails to authorize NDNWR
- **X** – 2007 breaches
- 2009 – Federal Govt. makes available via PBC process
- Northern 3/4 of the island acquired by DWR in 2010

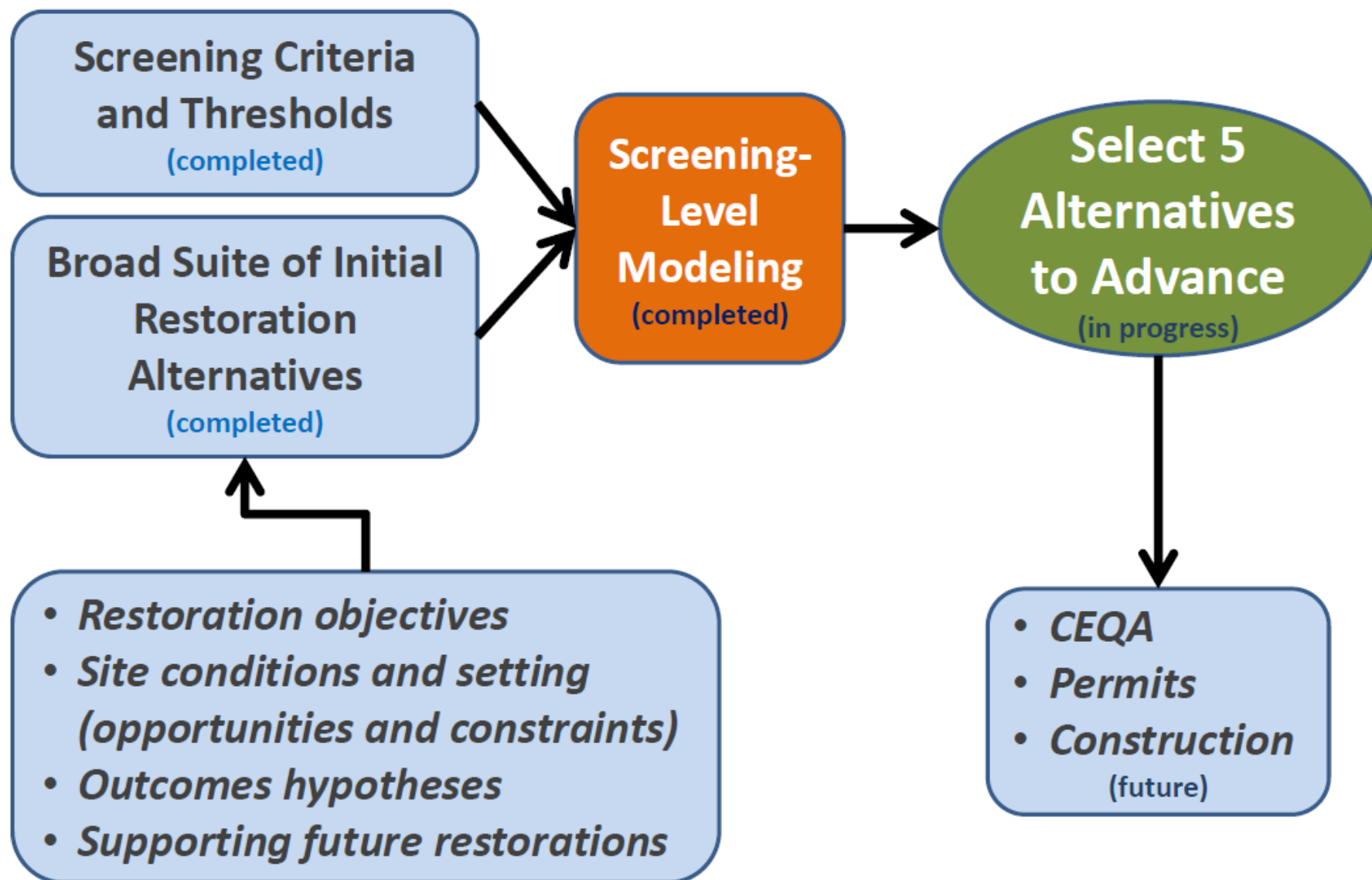


# Prospect Island Existing 'Feral' Vegetation



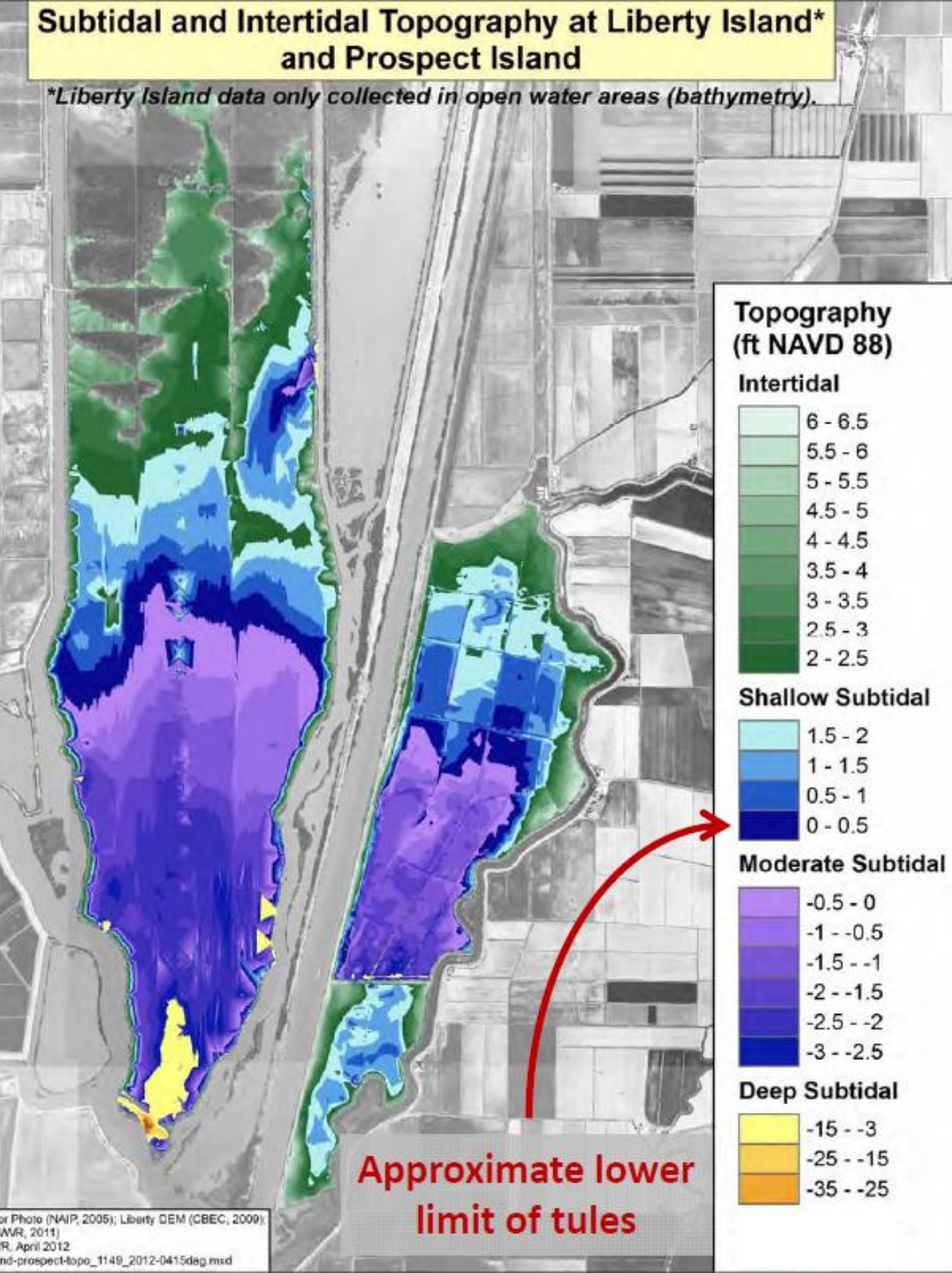


# Current Planning Activities



## Subtidal and Intertidal Topography at Liberty Island\* and Prospect Island

\*Liberty Island data only collected in open water areas (bathymetry).



# Existing Topography

- Extensive deeper acreage at Liberty vs. Prospect
- Liberty deep scour hole at main breach, second scour hole at secondary breach; anticipate at Prospect
- Liberty has extensive perimeter connectivity through eroded levee; maintain or abandon Prospect levees?
- Liberty has extensive unvegetated areas within suitable emergent vegetation elevation. Promote emergent veg at Prospect

# Conceptual Alternatives Selected for Modeling

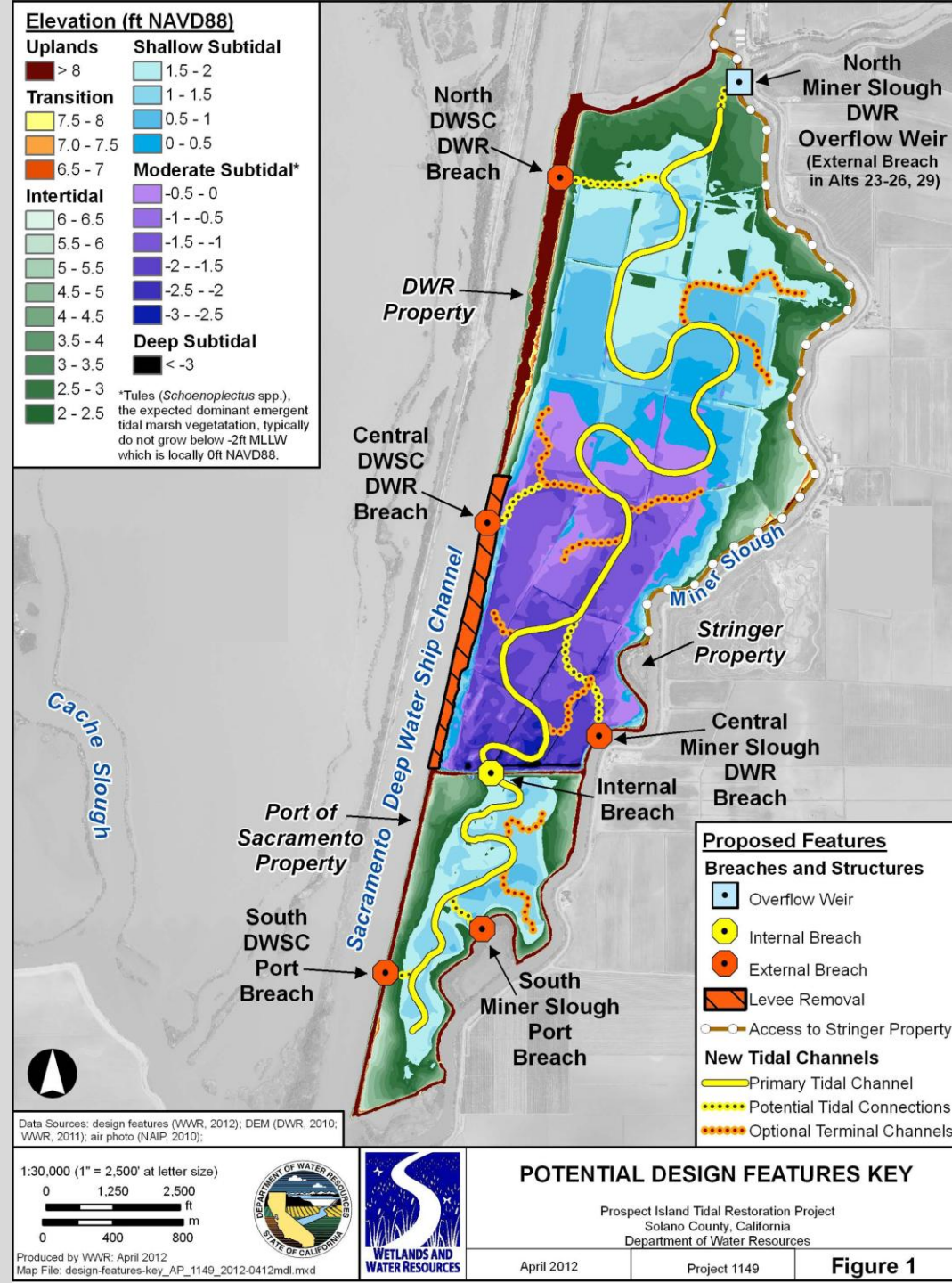
- 30 restoration alternatives formulated to represent **broad range** of ecological outcomes
- 15 chosen for screening-level modeling and assessment based on attributes anticipated to result in **broad range** of outcomes

**Key approach: maximize differences across selected alternatives to assess greatest contrasts**



# Design Features Key

- Breaches
- Overflow weir
- Primary channels
- Secondary branch channels
- Connecting channels depending on selected breaches
- DWR and Port properties
- Adjacent property access





# DRERIP

## (Delta Regional Ecosystem Restoration Implementation Plan)

- Panel of experts
- 2-day workshop evaluating 15 alternatives
- Generate a report with 5 recommended alternatives

# Current Issues

- DWR access
- Property owner easements
- Seepage
- Vandalism
- Illegal hunting





# Interim Land Management

- Attempted RD resurrection
- Levee clearing
- Inspection
- Repair

## RECLAMATION

*Managing Water in the West*

### Prospect Island Miner Slough Levee Inspection Report



U.S. Department of the Interior  
Bureau of Reclamation  
Mid-Pacific Region

Inspected on February 27, 2008



## Station 95+65 – Sloughing on levee crest





# Special Thanks To:

- Dennis McEwan
- Stuart Siegel
- Gina Benigno
- Ling Chu
- Pam Lindholm
- Laura Flournoy



*Blacklock Levee Breach, Oct 2006  
Photo: S. Siegel*